



Brass High-Purity Single-Stage Models

Description: These brass, single-stage, high-purity regulators are recommended for non-corrosive analytical and process applications where precise flow control is not critical. A specially designed, convoluted, stainless steel diaphragm with metal to metal seals provides good regulating performance and maximum purity integrity without the need for a soft seal, which often can be a source of contamination.

The CGA nipple has a special high-purity, non-lubricated check valve incorporated into the nose, and a safety relief valve to protect the internal regulator components.

Each regulator is capable of withstanding an internal vacuum and is provided with a diffusion-resistant, diaphragm packless outlet valve to maintain system purity. The optional bonnet vent port (1/8 NPT) allows for the venting of hazardous gases in the event of diaphragm failure.

High-Purity Brass

ANALYTIC SERIES
PRESSURE REGULATORS



Design Features

- Encapsulated Filter Seat Assy**
for added gas stream purity and extended service life.
- Convoluted Stainless Steel Diaphragms**
provide superior leak integrity without contamination from a non-metallic liner or seal.
- Bonnet Vent Ports (1/8 NPT)**
allow venting of hazardous gases in the event of diaphragm failure.
- Standard Threaded Bonnet (with optional collar-mount nuts)**
for easy panel mounting.
- Diaphragm Packless Valve (with 1/4" Compression fitting)**
promotes system purity.
- Five Outlet Pressure Ranges**
provide application pressure compatibility.
- CGA Connection with Integral Check Valve**
prevents contamination during cylinder changeout.

Materials

| | |
|---------------------|----------------------------|
| Body | Chrome Nickel-Plated Brass |
| Bonnet | Chrome Nickel-Plated Brass |
| Seat | PCTFE |
| Diaphragm | 316 Stainless Steel |
| Gauges | 2 1/2" Nickel-Plated Brass |
| Filter | Nickel-Plated Bronze |
| Outlet Valve | Nickel-Plated Brass |
| Trim | Nickel-Plated Brass |

| Specifications | |
|--------------------------------------|--------------------------------------|
| Maximum Rated Inlet Pressure | 3,500 psig |
| Outlet Pressure Ranges | 0-25, 0-50, 0-100, 0-250, 0-500 psig |
| Flow Capacity | Cv - 08 |
| Ambient Operating Temperature | -40° F to +165° F |
| Designed Leak Rate | 2 x 10 ⁻⁸ ccs (helium) |
| Weight | 4 lbs |
| Ports (6) 3HP, 3LP | 1/4" FNPT |
| Inlet | 1/4" FNPT |
| Outlet | 1/4" Compression |
| Decay Inlet Characteristic | 1.8 psi/100 psi |

Ordering Information

| Product Number | Material | Max Inlet Pressure (psig) | Max Outlet Pressure (psig) | Capacity (scfh @ Max Del. Pressure) | Inlet Gauge Range (psig) | Delivery Gauge Range (psig) |
|-------------------|----------|---------------------------|----------------------------|-------------------------------------|--------------------------|-----------------------------|
| Y11-ASN245A (CGA) | Brass | 3,500 | 25 | 900 | 0-4,000 | 30" Hg-0-30 |
| Y11-ASN245B (CGA) | Brass | 3,500 | 50 | 1,250 | 0-4,000 | 0-100 |
| Y11-ASN245D (CGA) | Brass | 3,500 | 100 | 1,750 | 0-4,000 | 0-200 |
| Y11-ASN245E (CGA) | Brass | 3,500 | 150 | 2,000 | 0-4,000 | 0-200 |
| Y11-ASN245F (CGA) | Brass | 3,500 | 250 | 2,700 | 0-4,000 | 0-400 |
| Y11-ASN245G (CGA) | Brass | 3,500 | 500 | 3,500 | 0-4,000 | 0-1,000 |

Available Options

| Product Number | Description |
|----------------|---|
| Y99-CHROMNUT | Panel Mounting Nut |
| Y99-BONNETADP | Bonnet Vent Adaptor |
| Y99-480078 | 1/4" Compression Outlet Ftg Brass |
| Y99-SS200R4 | 1/4" Compression Outlet Ftg Stn Steel |
| Y99-26460 | 1/4" Compression Outlet Ftg Stn Steel |
| Y99-4VCR | 1/4" VCR connection on Inlet/Outlet (VCR x 1/4" MNPT) |
| Y15-QMB1 | Quick Mounting Option for 1 Cylinder |
| Y15-QMB2 | Quick Mounting Option for 2 Cylinders |